WEST Search History

DATE: Friday, April 18, 2003

Set Name side by side		Hit Count	Set Name result set
DB=US	SPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ		
L1	ionizer or (ion with (generator or generating or emitter))	28924	L1
L2	ionizer or (ion with (generator or generating or emitter or precipitator or collector))	33579	L2
L3	L2 and (electrode with (shape or Z or bent or corrugated or corrugation or angular or pleated))	2271	L3
L4	L2 and (electrode with (shape or Z or bent or corrugated or corrugation or angular or angle or angled or pleat or pleated))	2598	L4
L5	L4 and (air conditioner or air purifier or air cleaner or air purifying or air conditioning)	87	L5

END OF SEARCH HISTORY

L	Hits	Search Text	DB	Time stamp
Number	·			
1	32292	ionizer or (ion with (generator or	USPAT;	2003/04/18
		generating or emitter or emitting))	US-PGPUB;	15:33
			EPO; JPO;	
			DERWENT	
2	36724	ionizer or (ion with (generator or	USPAT;	2003/04/18
		generating or emitter or emitting or	US-PGPUB;	15:33
		precipitor or collector))	EPO; JPO;	
			DERWENT	
3	42196	ionizer or (ion with (generator or	USPAT;	2003/04/18
		generating or emitter or emitting or	US-PGPUB;	15:34
		precipitor or precipitating or collector or	EPO; JPO;	
		collecting))	DERWENT	
4	3937	(ionizer or (ion with (generator or	USPAT;	2003/04/18
		generating or emitter or emitting or	US-PGPUB;	15:35
		precipitor or precipitating or collector or	EPO; JPO;	.0100
		collecting))) and (electrode with (shape	DERWENT	
		or shaped or Z or bent or corrugated or	DERVER	
		corrugation or corrugating or angular or		
		angle or angled or pleat or pleated or		
		pleating))		
5	142	((ionizer or (ion with (generator or	HCDAT.	2003/04/18
		generating or emitter or emitting or	USPAT;	
		_	US-PGPUB;	15:37
		precipitor or precipitating or collector or	EPO; JPO;	
		collecting))) and (electrode with (shape	DERWENT	
		or shaped or Z or bent or corrugated or		
		corrugation or corrugating or angular or		
		angle or angled or pleat or pleated or		
		pleating))) and (air with (conditioner or		
		conditioning or purifier or purifying or		
_		cleaner))		
6	69	(((ionizer or (ion with (generator or	USPAT;	2003/04/18
		generating or emitter or emitting or	US-PGPUB;	15:37
		precipitor or precipitating or collector or	EPO; JPO;	
	Ì	collecting))) and (electrode with (shape	DERWENT	
		or shaped or Z or bent or corrugated or		
	İ	corrugation or corrugating or angular or		
		angle or angled or pleat or pleated or		
		pleating))) and (air with (conditioner or		
		conditioning or purifier or purifying or		
		cleaner))) and (inlet or intake) and outlet		

Generate Collection

Print

Search Results - Record(s) 1 through 50 of 87 returned.

1. Document ID: US 20030072675 A1

L5: Entry 1 of 87

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030072675

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030072675 A1

TITLE: Sterilization method, ion generating device, ion generating device, and air conditioning device

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

CITY	STATE	COUNTRY	RULE-47
Osaka-shi		JP	
Osaka-shi		JР	
Osaka-shi		JР	
Osaka-shi		JP	
	Osaka-shi Osaka-shi Osaka-shi Osaka-shi Osaka-shi Osaka-shi Osaka-Shi	Osaka-shi Osaka-shi Osaka-shi Osaka-shi Osaka-shi Osaka-shi Osaka-Shi	Osaka-shi JP

US-CL-CURRENT: 422/22; 422/186.04, 422/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw. D	eso l	mage								•	•

2. Document ID: US 20030068557 A1

L5: Entry 2 of 87

File: PGPB

Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030068557

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030068557 A1

TITLE: Lithium secondary battery positive electrode plate and lithium secondary

battery

PUBLICATION-DATE: April 10, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Kumashiro, Yoshiaki Hitachi JP

Kasai, Masahiro Mito JP Takeuchi, Seiji Hitachiota JΡ

US-CL-CURRENT: 429/231.8; 429/232, 429/61

3. Document ID: US 20030005824 A1

L5: Entry 3 of 87

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030005824

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030005824 A1

TITLE: Dust collecting apparatus and air-conditioning apparatus

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Katou, Ryou

Aichi

JР

COUNTRY

Aichi JP

US-CL-CURRENT: 96/35

Tashiro, Yoshikazu

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draws Described Image

4. Document ID: US 20020180843 A1

L5: Entry 4 of 87

File: PGPB

Dec 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020180843

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020180843 A1

TITLE: Piezoelectric element, actuator, and inkjet head

PUBLICATION-DATE: December 5, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Irie, Yousuke

Nara-shi

JP

Yokoyama, Kazuo

Hirakata-shi

JP

US-CL-CURRENT: <u>347/70</u>

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC |
Draw, Desc | Image |

5. Document ID: US 20020155026 A1

L5: Entry 5 of 87

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155026

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020155026 A1

TITLE: Electrostatic disinfectant delivery

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Lins, Claudio L.K.

Racine

WI

US

US-CL-CURRENT: 422/4; 422/28

Full Title Citation Front Review Classification Date Reference Sequences Attachments

6. Document ID: US 20020152890 A1

L5: Entry 6 of 87

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020152890

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020152890 A1

TITLE: Electrically enhanced air filter with coated ground electrode

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Leiser, Randal D.

Middleton

WI

US

US-CL-CURRENT: 95/63

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

KOMC

7. Document ID: US 20020150520 A1

L5: Entry 7 of 87

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020150520

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020150520 A1

TITLE: Electro-kinetic air transporter-conditioner devices with enhanced emitter electrode

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Taylor, Charles E.

Sebastopol

CA

US

Lee, Jim L.

Rohnert Park

CA

US

US-CL-CURRENT: 422/186.04

8. Document ID: US 20020134665 A1

L5: Entry 8 of 87

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020134665

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020134665 A1

TITLE: Electro-kinetic air transporter-conditioner devices with trailing electrode

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Taylor, Charles E.

Sebastopol

CA

US

Lee, Jim L.

Rohnert Park

CA

US

US-CL-CURRENT: 204/164; 422/186.04

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Drawn Desc Image

KWIC

9. Document ID: US 20020134664 A1

L5: Entry 9 of 87

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020134664

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020134664 A1

TITLE: Electro-kinetic air transporter-conditioner devices with an upstream focus

electrode

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Taylor, Charles E.

Sebastopol

CA

US

COUNTRY

Lee, Jim L.

Rohnert Park

CA

US

US-CL-CURRENT: 204/164; 422/186.04

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw, Desc Image

KMAC

10. Document ID: US 20020127156 A1

L5: Entry 10 of 87

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020127156

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020127156 A1

TITLE: Electro-kinetic air transporter-conditioner devices with enhanced collector electrode

PUBLICATION-DATE: September 12, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Taylor, Charles E.

Sebastopol

CA

US

US-CL-CURRENT: 422/186

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

KWIC

11. Document ID: US 20020122752 A1

L5: Entry 11 of 87

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020122752

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020122752 A1

TITLE: Electro-kinetic air transporter-conditioner devices with interstitial

electrode

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Taylor, Charles E.

Lau, Shek Fai

Sebastopol Foster City CA

CA

COUNTRY US

US

US-CL-CURRENT: 422/186

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

12. Document ID: US 20020122751 A1

L5: Entry 12 of 87

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020122751

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020122751 A1

TITLE: Electro-kinetic air transporter-conditioner devices with a enhanced collector

electrode for collecting more particulate matter

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Sinaiko, Robert J.

San Francisco

CA

US

Taylor, Charles E.

Sebastopol

CA

US

US-CL-CURRENT: 422/186

13. Document ID: US 20020098131 A1

L5: Entry 13 of 87

File: PGPB

Jul 25, 2002

KWC

PGPUB-DOCUMENT-NUMBER: 20020098131

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020098131 A1

TITLE: Electro-kinetic air transporter-conditioner device with enhanced cleaning

features

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Taylor, Charles E.

Sebastopol

CA CA US US

Lau, Shek Fai Foster City CA

US-CL-CURRENT: 422/186.04; 204/164, 204/176, 422/186.07

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw, Desc Image

KOMC

14. Document ID: US 20020079212 A1

L5: Entry 14 of 87

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020079212

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020079212 A1

TITLE: Electro-kinetic air transporter-conditioner

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Taylor, Charles E.

Sebastopol

CA

ROLL

Lau, Shek Fai

Foster City

CA

US US

COUNTRY

US-CL-CURRENT: 204/164; 204/176, 422/186.04, 422/186.07

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
Draw, Desc | Image |

KAMC

15. Document ID: US 20020062836 A1

L5: Entry 15 of 87

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020062836

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020062836 A1

TITLE: Ion generator and hairbrush using the same

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Saida, Itaru

Hikone-shi

JР

Kitamura, Hisashi

Hikone-shi

JР

US-CL-CURRENT: 132/271; 607/79

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC

16. Document ID: US 20020033448 A1

L5: Entry 16 of 87

File: PGPB

Mar 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020033448

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020033448 A1

TITLE: Microscale mass spectrometric chemical-gas sensor

PUBLICATION-DATE: March 21, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Berger, Philip S.

St. Louis

MO

KOLE-4/

Gentry, W. Ronald

Port Townsend

WA

US US

COUNTRY

US-CL-CURRENT: 250/296

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw Desc Image

KWIC

17. Document ID: US 20010048906 A1

L5: Entry 17 of 87

File: PGPB

Dec 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010048906

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010048906 A1

TITLE: Electrode self-cleaning mechanism for electro-kinetic air

transporter-conditioner devices

PUBLICATION-DATE: December 6, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE COUNTRY

RULE-47

Lau, Shek Fai

Foster City Rohnert Park CA US

Lee, Jimmy L. Parker, Andrew J.

Sausalito

CA

US

US-CL-CURRENT: 422/186; 134/104.1, 134/201, 361/226, 361/230

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw Desc Image

18. Document ID: US 20010046107 A1

L5: Entry 18 of 87

File: PGPB

Nov 29, 2001

KMC

PGPUB-DOCUMENT-NUMBER: 20010046107

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010046107 A1

TITLE: Actuator, information recording/reproducing device, and method of

manufacturing actuator

PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Irie, Yousuke Yokoyama, Kazuo

Nara Osaka JP JP

US-CL-CURRENT: 360/294.4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC |
Draw, Desc | Image |

19. Document ID: US 20010025570 A1

L5: Entry 19 of 87

File: PGPB

Oct 4, 2001

PGPUB-DOCUMENT-NUMBER: 20010025570

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010025570 A1

TITLE: Air cleaner, air cleaning method, and air cleaner with sterilization

PUBLICATION-DATE: October 4, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Fukushima, Fumio

Tokyo

JΡ

US-CL-CURRENT: 95/57; 96/55

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw, Desc | Image |

20. Document ID: US 20010004046 A1

L5: Entry 20 of 87

File: PGPB

Jun 21, 2001

KWC

PGPUB-DOCUMENT-NUMBER: 20010004046 PGPUB-FILING-TYPE: new-utility DOCUMENT-IDENTIFIER: US 20010004046 A1

TITLE: Electro-kinetic air transporter-conditioner

PUBLICATION-DATE: June 21, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Taylor, Charles E.

Sebastopol

CA

US

Lau, Shek Fai

Foster City

CA

US

US-CL-CURRENT: 204/176; 422/186_07

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

21. Document ID: US 6544485 B1

L5: Entry 21 of 87

File: USPT

Apr 8, 2003

US-PAT-NO: 6544485

DOCUMENT-IDENTIFIER: US 6544485 B1

TITLE: Electro-kinetic device with enhanced anti-microorganism capability

DATE-ISSUED: April 8, 2003

INVENTOR-INFORMATION:

CITY

STATE

ZIP CODE

COUNTRY

Taylor; Charles E.

Sebastopol

CA

US-CL-CURRENT: 422/186.04; 422/121, 422/186.12, 422/186.3

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc - Image

22. Document ID: US 6497973 B1

L5: Entry 22 of 87

File: USPT

Dec 24, 2002

US-PAT-NO: 6497973

DOCUMENT-IDENTIFIER: US 6497973 B1

TITLE: Electroconversion cell

DATE-ISSUED: December 24, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Amendola; Steven

Ocean

ŊJ

US-CL-CURRENT: 429/19; 204/253, 204/254, 205/343, 205/345, 205/637, 429/21, 429/34

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw Desc Image

23. Document ID: US 6494934 B2

L5: Entry 23 of 87

File: USPT

Dec 17, 2002

US-PAT-NO: 6494934

DOCUMENT-IDENTIFIER: US 6494934 B2

TITLE: Air cleaner, air cleaning method, and air cleaner with sterilization

DATE-ISSUED: December 17, 2002

INVENTOR - INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY

Fukushima; Fumio

Tokyo

JP

US-CL-CURRENT: 95/63; 95/73, 95/77, 96/225, 96/55, 96/94, 96/96

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc - Image

24. Document ID: US 6491743 B1

L5: Entry 24 of 87

File: USPT

Dec 10, 2002

US-PAT-NO: 6491743

DOCUMENT-IDENTIFIER: US 6491743 B1

TITLE: Electronic cartridge filter

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Joannou; Constantinos J.

Nepean Ontario

K2H 5S3

CA

French; David J.

Aylmer, Quebec

J9H 4PS

CA

US-CL-CURRENT: 96/67; 55/521, 96/98

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw Desc Image

25. Document ID: US 6475680 B1

L5: Entry 25 of 87

File: USPT

Nov 5, 2002

KWIC

US-PAT-NO: 6475680

DOCUMENT-IDENTIFIER: US 6475680 B1

TITLE: Lithium secondary battery, its electrolyte, and electric apparatus using the

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arai; Juichi	Katsura-mura			JP
Katayama; Hideaki	Hitachi			JP
Akahoshi; Haruo	Hitachi			JP
Takamura; Tomoe	Hitachi			JP
Iwayanagi; Takao	Tokyo			JP

US-CL-CURRENT: 429/340; 429/330, 429/336

Full Title	Citation F	Front	Review Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc Ima	age							

26. Document ID: US 6475655 B1

L5: Entry 26 of 87

File: USPT

Nov 5, 2002

US-PAT-NO: 6475655

DOCUMENT-IDENTIFIER: US 6475655 B1

TITLE: Fuel cell system with hydrogen gas separation

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Nakanishi; Haruyuki	Osaka				JP
Tanaka; Hirohisa	Osaka				JP
Yamada; Koji	Osaka				JP
Abe; Masahiro	Osaka				JP
Asazawa; Koichiro	Osaka				JP

US-CL-CURRENT: 429/19; 429/12, 429/13, 429/17, 429/22, 429/30, 429/34, 429/35, 429/37, 429/38, 429/64

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC	
Draw, D	eso Ir	nage						•			

27. Document ID: US 6405551 B1

L5: Entry 27 of 87

File: USPT

Jun 18, 2002

US-PAT-NO: 6405551

DOCUMENT-IDENTIFIER: US 6405551 B1

TITLE: Heating apparatus having refrigeration cycle

DATE-ISSUED: June 18, 2002

INVENTOR-INFORMATION:

THE PROPERTY OF THE PARTY OF TH				
NAME	CITY	STATE	ZIP CODE	COUNTRY
Kuwabara; Katumi	Saitama			JP
Wakikawa; Junji	Saitama			JP
Takahashi; Mitiyuki	Saitama			JP
Kobayashi; Akihiro	Saitama			JP

US-CL-CURRENT: 62/238.7; 62/238.6, 62/318, 62/319, 62/324.3, 62/434

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw Desc Image

KMC

28. Document ID: US 6398852 B1

L5: Entry 28 of 87

File: USPT

Jun 4, 2002

US-PAT-NO: 6398852

DOCUMENT-IDENTIFIER: US 6398852 B1

TITLE: Device for air cleaning

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Loreth; Andrzej

Akersberga

SE

US-CL-CURRENT: 96/63; 55/498, 55/520, 96/69, 96/88, 96/98

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw, Desc Image

KWIC

29. Document ID: US 6375714 B1

L5: Entry 29 of 87

File: USPT

Apr 23, 2002

US-PAT-NO: 6375714

DOCUMENT-IDENTIFIER: US 6375714 B1

TITLE: Device and process to produce active oxygen ions in the air for improved air quality

DATE-ISSUED: April 23, 2002

INVENTOR-INFORMATION:

Kiesewetter; Olaf

NAME

CITY Hausen STATE ZIP CODE

COUNTRY

Rump; Hanns

Geschwenda

DE DE

US-CL-CURRENT: 95/3; 361/235, 96/19, 96/96, 96/97

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw, Desc | Image |

KMIC

30. Document ID: US 6350417 B1

L5: Entry 30 of 87

File: USPT

Feb 26, 2002

US-PAT-NO: 6350417

DOCUMENT-IDENTIFIER: US 6350417 B1

** See image for Certificate of Correction **

TITLE: Electrode self-cleaning mechanism for electro-kinetic air

transporter-conditioner devices

DATE-ISSUED: February 26, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Lau; Shek Fai

Foster City

CA

Lee; Jimmy Luther Parker; Andrew J.

Rohnert Park Sausalito

CA CA

US-CL-CURRENT: 422/186.04; 422/186.07

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw, Desc Image

KWIC

31. Document ID: US 6228148 B1

L5: Entry 31 of 87

File: USPT

May 8, 2001

US-PAT-NO: 6228148

DOCUMENT-IDENTIFIER: US 6228148 B1

** See image for Certificate of Correction **

TITLE: Method for separating particles from an air flow

DATE-ISSUED: May 8, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Aaltonen; Rami

Turku

FI

Leimu; Juha

Turku

FI

Norri; Petri Turku

FI

US-CL-CURRENT: 95/74; 55/431, 95/75, 95/78, 96/228, 96/44, 96/50, 96/61, 96/97

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw, Desc Image

kháđn

32. Document ID: US 6176977 B1

L5: Entry 32 of 87

File: USPT

Jan 23, 2001

US-PAT-NO: 6176977

DOCUMENT-IDENTIFIER: US 6176977 B1

TITLE: Electro-kinetic air transporter-conditioner

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Taylor; Charles E.

Sebastopol

CA

Lau; Shek Fai

Foster City

CA

13 of 21

US-CL-CURRENT: 204/176; 123/539, 132/272, 361/226, 361/230, 361/232, 422/186.07

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
Draw, Desc | Image |

33. Document ID: US 6163098 A

L5: Entry 33 of 87

File: USPT

Dec 19, 2000

US-PAT-NO: 6163098

DOCUMENT-IDENTIFIER: US 6163098 A

TITLE: Electro-kinetic air refreshener-conditioner with optional night light

DATE-ISSUED: December 19, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE COUNTRY

Taylor; Charles E.

Sebastopol

CA

Lau; Shek Fai

Foster City

CA

US-CL-CURRENT: 310/308; 361/230, 361/235, 96/15, 96/26, 96/70, 96/95, 96/98

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw, Desc Image

KWIC

34. Document ID: US 6136074 A

L5: Entry 34 of 87

File: USPT

Oct 24, 2000

US-PAT-NO: 6136074

DOCUMENT-IDENTIFIER: US 6136074 A

TITLE: Air conditioning apparatus with an air cleaning function and electric dust collector for use in the same

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Okamoto; Yoshikatsu Osaka JΡ Ikuzawa; Yoshiaki Osaka JP Okazaki; Akinori Osaka JP Sakaue; Takao Osaka JΡ

US-CL-CURRENT: 96/62; 95/78, 96/63

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC |
Craw. Desc | Image |

35. Document ID: US 6129781 A

US-PAT-NO: 6129781

DOCUMENT-IDENTIFIER: US 6129781 A

TITLE: Air conditioning apparatus with an air cleaning function and electric dust

collector for use in the same

DATE-ISSUED: October 10, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okamoto; Yoshikatsu	Osaka			JP
Ikuzawa; Yoshiaki	Osaka			JP
Okazaki; Akinori	Osaka			JP
Sakaue; Takao	Osaka			JP

US-CL-CURRENT: 96/25; 55/282_3, 55/DIG.10, 95/73, 95/74, 96/28, 96/399, 96/74



36. Document ID: US 6077334 A

L5: Entry 36 of 87

File: USPT

Jun 20, 2000

US-PAT-NO: 6077334

DOCUMENT-IDENTIFIER: US 6077334 A

TITLE: Externally ionizing air filter

DATE-ISSUED: June 20, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Joannou; Constantinos J.

Aylmer, Quebec

CA

US-CL-CURRENT: 96/66; 96/97

Full			Front	Review	Classification	Date	Reference	Sequences	Attachments	KWWC
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37. Document ID: US 6001678 A

L5: Entry 37 of 87

File: USPT

Dec 14, 1999

US-PAT-NO: 6001678

DOCUMENT-IDENTIFIER: US 6001678 A

TITLE: Insulated gate semiconductor device

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

JΡ

Takahashi; Hideki

Tokyo

CODE

US-CL-CURRENT: 438/238; 257/E21.384, 257/E29.201, 438/243, 438/245, 438/268, 438/271

Full Title Citation Front Review Classification Date Reference Sequences Attachments KWIC | Draw, Desc | Image

38. Document ID: US 5982102 A

L5: Entry 38 of 87

File: USPT

Nov 9, 1999

US-PAT-NO: 5982102

DOCUMENT-IDENTIFIER: US 5982102 A

** See image for Certificate of Correction **

TITLE: Device for transport of air and/or cleaning of air using a so called ion wind

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

Andrzej; Loreth

NAME

CITY

.ANG.kersberga

STATE

ZIP CODE

COUNTRY

SE

US-CL-CURRENT: 315/111.91; 315/111.31, 315/111.81

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw, Desc | Image |

KMAC

39. Document ID: US 5977716 A

L5: Entry 39 of 87

File: USPT

Nov 2, 1999

US-PAT-NO: 5977716

DOCUMENT-IDENTIFIER: US 5977716 A

TITLE: Ion generator for a combustion device

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE COUNTRY

Motouchi; Kazuo Nishi-ku, Kobe-shi, Hyogo 651-21 Jp

US-CL-CURRENT: 315/111.91; 123/537, 250/423F

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Oraw, Desc | Image |

KWIC

40. Document ID: US 5960264 A

L5: Entry 40 of 87

File: USPT

Sep 28, 1999

US-PAT-NO: 5960264

DOCUMENT-IDENTIFIER: US 5960264 A

TITLE: Method of manufacturing an insulated gate semiconductor device

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Takahashi; Hideki

Tokyo

JP

US-CL-CURRENT: 438/133; 257/E21.384, 257/E29.028, 257/E29.067, 257/E29.201, 438/138

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw, Desc | Image |

KWC

41. Document ID: US 5801408 A

L5: Entry 41 of 87

File: USPT

Sep 1, 1998

US-PAT-NO: 5801408

DOCUMENT-IDENTIFIER: US 5801408 A

TITLE: Insulated gate semiconductor device and method of manufacturing the same

DATE-ISSUED: September 1, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Takahashi; Hideki

Tokyo

JP

US-CL-CURRENT: 257/212; 257/133, 257/220, 257/242, 257/244, 257/263, 257/302, 257/328, 257/E21.384, 257/E29.028, 257/E29.067, 257/E29.201

Full T	itle	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC

42. Document ID: US 5751024 A

L5: Entry 42 of 87

File: USPT

May 12, 1998

US-PAT-NO: 5751024

DOCUMENT-IDENTIFIER: US 5751024 A

TITLE: Insulated gate semiconductor device

DATE-ISSUED: May 12, 1998

INVENTOR - INFORMATION:

NAME

CITY

STATE :

ZIP CODE

COUNTRY

Takahashi; Hideki

Tokyo

JΡ

US-CL-CURRENT: 257/139; 257/143, 257/147, 257/149, 257/155, 257/172, 257/330, 257/331, 257/E21.384, 257/E29.201

KWIC

43. Document ID: US 5728288 A

L5: Entry 43 of 87

File: USPT

Mar 17, 1998

US-PAT-NO: 5728288

DOCUMENT-IDENTIFIER: US 5728288 A

TITLE: Apparatus and method for producing air containing minus alkali ion

DATE-ISSUED: March 17, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Kubo; Tetsujiro

Tokyo

JΡ

US-CL-CURRENT: 205/763; 204/248, 204/249, 204/277, 204/278, 205/745, 205/764

Full Title Citation Front Review Classification Date Reference Sequences Attachments

44. Document ID: US 5711788 A

L5: Entry 44 of 87

File: USPT

Jan 27, 1998

US-PAT-NO: 5711788

DOCUMENT-IDENTIFIER: US 5711788 A

TITLE: Dust neutralizing and floculating system

DATE-ISSUED: January 27, 1998

INVENTOR-INFORMATION:

NAME CITY ZIP CODE STATE COUNTRY Kim; Yong Jin Dae Jeon KR Hong; Won Suk Seoul KR Yeom; Han Geel Dae Jeon KR Lee; Jae Ouk Dae Jeon KR Moon; Yong Seung Ansan KR Lee; Won Huy Souwon KR Lee; Chan Yeol Goun San KR Kim; Jung Ho Ansan ΚŔ

US-CL-CURRENT: 96/3; 361/226, 96/57, 96/75, 96/80

Full Title Citation Front Review Classification Date Reference Sequences Attachments Drawi Desc | Image

KOMC:

45. Document ID: US 5474599 A

L5: Entry 45 of 87

File: USPT

Dec 12, 1995

US-PAT-NO: 5474599

DOCUMENT-IDENTIFIER: US 5474599 A

TITLE: Apparatus for electrostatically cleaning particulates from air

DATE-ISSUED: December 12, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE

Cheney; William A. Cincinnati OH

COUNTRY

Spurgin; Wendell P.

Cincinnati

OH

US-CL-CURRENT: 96/55; 95/63, 95/78, 96/59, 96/66, 96/68, 96/99



46. Document ID: US 5456741 A

L5: Entry 46 of 87

File: USPT

Oct 10, 1995

US-PAT-NO: 5456741

DOCUMENT-IDENTIFIER: US 5456741 A

TITLE: Air purifier

DATE-ISSUED: October 10, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Takahara; Toshihiro Chiryu JΡ Katou; Kenichi Nagoya JP Takeichi; Masakazu Okazaki JP

US-CL-CURRENT: 96/22; 95/6, 96/57, 96/59, 96/67, 96/96, 96/97

Full Title	Citation Front	Review Classification	Date Reference	Sequences Attachments	KWIC
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47. Document ID: US 5403383 A

L5: Entry 47 of 87

File: USPT

Apr 4, 1995

US-PAT-NO: 5403383

DOCUMENT-IDENTIFIER: US 5403383 A

TITLE: Safe ionizing field electrically enhanced filter and process for safely

ionizing a field of an electrically enhanced filter

DATE-ISSUED: April 4, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Jaisinghani; Rajan Midlothian VA 23112 US-CL-CURRENT: 95/69; 422/22, 422/4, 95/70, 95/78, 95/79, 96/223, 96/58, 96/59, 96/62, 96/67, 96/68, 96/96

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw, Desc | Image |

48. Document ID: US 5382410 A

L5: Entry 48 of 87

File: USPT

Jan 17, 1995

US-PAT-NO: 5382410

DOCUMENT-IDENTIFIER: US 5382410 A

** See image for Certificate of Correction **

TITLE: Electrostatic vapor/aerosol generator with method and apparatus for conditioning building spaces

DATE-ISSUED: January 17, 1995

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Peltier; Mark E.

Minneapolis

MN

US-CL-CURRENT: 422/121; 239/34, 239/44, 422/124, 422/22, 422/305, 422/5

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw Desc Image

KWIC

49. Document ID: US 5330559 A

L5: Entry 49 of 87

File: USPT

Jul 19, 1994

US-PAT-NO: 5330559

DOCUMENT-IDENTIFIER: US 5330559 A

TITLE: Method and apparatus for electrostatically cleaning particulates from air

DATE-ISSUED: July 19, 1994

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE COUNTRY

Cheney; William A. Spurgin; Wendell P.

Cincinnati Cincinnati OH

US-CL-CURRENT: 95/63; 95/78, 96/55, 96/59, 96/66, 96/68, 96/77, 96/99

Full Title Citation Front Review Classification Date Reference Sequences Attachments
Draw, Descriptings

KWIC

50. Document ID: US 5310608 A

L5: Entry 50 of 87

File: USPT

May 10, 1994

US-PAT-NO: 5310608

DOCUMENT-IDENTIFIER: US 5310608 A
** See image for Certificate of Correction **

TITLE: Temperature difference storage battery

DATE-ISSUED: May 10, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishizawa; Maki	Tokyo			JР
Ogata; Tsutomu	Sayama			JР
Shindo; Kazuhiko	Tokyo			JP
Kitada; Syuichi	Iruma			JР
Koyama; Mitsunori	Nishikatsura			JP

US-CL-CURRENT: 429/11; 429/24

Full Title Citation Draw. Desc Image	Front Review Classification Date Reference Sequences	Attachments KMC
	7	
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> Previous Page Next Page